

### IN THE SPECIFICATION

Please amend the title as follows:

DECOUPLED STORE ADDRESS AND DATA IN A MULTIPROCESSOR SYSTEM  
DECOUPLING OF WRITE ADDRESS FROM ITS ASSOCIATED WRITE DATA IN  
A STORE TO A SHARED MEMORY IN A MULTIPROCESSOR SYSTEM

Please amend the paragraph beginning on page 1 at line 5, as follows:

This application is related to U.S. Patent Application No. [[ \_\_\_\_\_ ]]  
10/643,744, entitled "Multistream Processing System and Method", filed on even date  
herewith; to U.S. Patent Application No. [[ \_\_\_\_\_ ]] 10/6443,577, entitled "System  
and Method for ~~Synchronizing~~ Processing Memory Transfers", Serial No.  
[[ \_\_\_\_\_ ]], filed on even date herewith; to U.S. Patent Application No.  
[[ \_\_\_\_\_ ]] 10/643,586, entitled "~~Decoupled Vector~~ Scalar/Vector Computer  
Architecture System and Method (as amended)", filed on even date herewith; to U.S. Patent  
Application No. [[ \_\_\_\_\_ ]] 10/643,585, entitled "Latency Tolerant Distributed  
Shared Memory Multiprocessor Computer", filed on even date herewith; to U.S. Patent  
Application No. [[ \_\_\_\_\_ ]] 10/643,754, entitled "Relaxed Memory Consistency  
Model", filed on even date herewith; to U.S. Patent Application No. [[ \_\_\_\_\_ ]],  
10/643,758 entitled "Remote Translation Mechanism for a Multinode System", filed on even  
date herewith; and to U.S. Patent Application No. [[ \_\_\_\_\_ ]] 10/643,741, entitled  
"~~Method and Apparatus for Local Synchronizations in a Vector Processor System~~ Multistream  
Processing Memory-And Barrier-Synchronization Method and Apparatus", filed on even date  
herewith, each of which is incorporated herein by reference.

Please amend paragraph [0012] (beginning on page 3 at line 5) as follows:

Not all processors [[16]] 12 have to be the same. A multiprocessor computer system 10 having different types of processors connected to a shared memory 16 is shown in Fig. 1b. Multiprocessor computer system 10 includes a scalar processing unit 12, a vector processing unit 14 and a shared memory 16. Shared memory 16 includes a store address buffer 19.

Please amend paragraph [0043] (beginning on page 9 at line 14) as follows:

In one embodiment, global memory 26 as shown in Fig. 3 is distributed to each MSP 30 as local memory [[48]] (not shown in Figures). In one embodiment, local memory is packaged as a separate chip (termed the "M" chip as shown in Fig. 4, block 26). Each Ecache 24 has four ports 34 to M chip [[42]] 26 and connected through M chip 26 to local memory ~~(and through M chip 42 to local memory 48 and to network 38)~~. In one embodiment, ports 34 are 16 data bits in each direction. MSP 30 has a total of 25.6 GB/s load bandwidth and 12.8-20.5 GB/s store bandwidth (depending upon stride) to local memory.